

IN THE CLAIMS:

Claims 1-16 (canceled).

17. (new) A purified recombinant DNA of human immunodeficiency virus type 1 (HIV-1), wherein the DNA comprises the sequence:

8570	8580	8590	8600	8610
GGGGGACTGG	AAGGGCTAAT	TCACTCCCAA	CGAAGACAAG	ATATCCTTGA
8620	8630	8640	8650	8660
TCTGTGGATC	TACCACACAC	AAGGCTACTT	CCCTGATTGG	CAGAACTACA
8670	8680	8690	8700	8710
CACCAGGGCC	AGGGGTCAGA	TATCCACTGA	CCTTGATG	GTGCTACAAG
8720	8730	8740	8750	8760
CTAGTACCAAG	TTGAGCCAGA	TAAGGTAGAA	GAGGCCAATA	AAGGAGAGAA
8770	8780	8790	8800	8810
CACCAGCTTG	TTACACCCTG	TGAGCCTGCA	TGGAATGGAT	GACCCTGAGA
8820	8830	8840	8850	8860
GAGAAAGTGT	AGAGTGGAGG	TTTGACAGCC	GCCTAGCATT	TCATCACGTG
8870	8880	8890	8900	8910
GCCCGAGAGC	TGCATCCGGA	GTACTTCAAG	AACTGCTGAC	ATCGAGCTTG
8920	8930	8940	8950	8960
CTACAAGGGAA	CTTTCCGCTG	GGGACTTTCC	AGGGAGGGCGT	GGCCTGGGCG
8970	8980	8990	9000	9010
GAACTGGGGA	GTGGCGAGCC	CTCAGATGCT	GCATATAAGC	AGCTGCTTTT
9020	9030	9040	9050	9060
TGCCTGTACT	GGGTCTCTCT	GGTTAGACCA	GATTGAGGCC	TGGGAGCTCT
9070	9080	9090	9097	10
CTGGCTAACT	AGGGAACCCA	CTGCTTAAGC	CTCAATA	AAGCTTGCT
20	30	40	50	60
TGAGTGCTTC	AAGTAGTGTG	TGCCCGTCTG	TTGTGTGACT	CTGGTAACTA

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70	80	90	100	110
GAGATCCCTC	AGACCCTTT	AGTCAGTGTG	GAAAATCTCT	AGCAGTGGCG
120	130	140	150	159
CCCGAACAGG	GACTTGAAAG	CGAAAGGGAA	ACCAGAGGAG	CTCTCTCGA

18. (new) The purified recombinant DNA of claim 17, wherein said nucleic acid is labeled with a label selected from the group consisting of a radioisotope, an enzyme, a fluorescent label, and a chromophore label.

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